



VHF AND UHF TRANSCEIVERS

IC-F3011 (VHF transceiver)

IC-F4011 (UHF transceiver)



IP54

Rugged

MIL-STD 810



◀ IC-F3011(VHF)

Simple, Rugged & Reliable at an unbelievable price!

Simple operation for instant communication

With only 3 buttons, one volume knob and one 16-position channel knob, the IC-F3011 series does not require special training to use. The large knobs and positive action buttons are easy-to-operate, even while wearing gloves.

Modern design, rugged body

The IC-F3011 series is compact (120 mm; 4.72 inch height) and light weight (approximate 300 g; 10.6 oz with BP-232H and antenna). The aluminum die-cast chassis is the basis for this rugged construction, allowing long-life usage in various environments.

MIL-STD and IP54 rugged construction

The radio is tested to MIL-STD 810 specifications and to the IP54 rating for dust protection and water resistance. The IC-F3011 series is built to take harsh use and keep working.

Lithium-ion battery standard

The IC-F3011 series comes with a high capacity 2350 mAh (typ.) Li-ion battery pack, BP-232H, as standard. The BP-232H offers up to 21 hours* of operation.

* VHF typical operation with Tx:Rx:Stand-by ratio =5:5:90

CTCSS/DTCS tone encoder/decoder

The IC-F3011 series has the built-in CTCSS and DTCS capabilities as standard to access a repeater or to set up your own talk group for quiet stand-by.

Rapid battery charger supplied

The rapid desktop charger, BC-160 and AC adapter BC-123SA is supplied with the radio. It charges the BP-232H Li-Ion battery in 3 hours (approx.).

Automatic scanning and priority scan

The power on scan function automatically starts scanning when turning on the radio. The priority scan function scans all programmed channels in sequence, while monitoring the priority channel.

Other features

- Low battery alert with blinking LED and low battery beep
- Wide frequency coverage (136–174, 400–470 and 450–512 MHz)
- PC programmable
- 3-color LED (Red, Green, Orange)
- Talk around function
- Time out timer
- Optional VOX headset
- 2-step power save

SPECIFICATIONS

	IC-F3011	IC-F4011
GENERAL		
Frequency coverage	136–174 MHz	400–470 MHz 450–512 MHz
No. of channels	16 channels	
Type of emission	16K0F3E/11K0F3E	
Channel spacing	25/12.5 kHz, 30/15 kHz	25/12.5 kHz
Power supply requirement	7.2 V DC nominal	
Current drain		
Tx High	1.5 A (at 5 W)	1.6 A (at 4 W)
Rx Max. audio/Standby	300 mA/70 mA	300 mA/70 mA
Antenna impedance	50 Ω	
Operating temperature range	–30 °C to +60 °C; –22 °F to +140 °F (Radio specifications)	
Dimensions (W × H × D) (Projections not included)	53 × 120 × 38 mm; 2.1 × 4.7 × 1.5 in (With BP-232H)	
Weight (approx.)	300 g; 10.6 oz (With BP-232H)	
TRANSMITTER		
Output power (at 7.2 V DC)	5 W, 2 W, 1 W (Hi, L2, L1)	4 W, 2 W, 1 W (Hi, L2, L1)
Max. Frequency deviation	±5.0/±2.5 kHz (Wide/Narrow)	
Frequency stability	±2.5 ppm	
Spurious emissions	80 dB typ.	
FM Hum and Noise	46/40 dB typ. (Wide/Narrow)	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ	
RECEIVER		
Sensitivity	0.25 μV typ. (at 12 dB SINAD)	
Adjacent channel selectivity	75/65 dB typ. (Wide/Narrow)	
Spurious response	70 dB min.	
Intermodulation rejection	74 dB typ.	
Hum and noise	55/50 dB typ. (W/N)	45/40 dB typ. (W/N)
Audio output power	500 mW typ. (at 5% dist, 8 Ω load)	
External speaker connector	2-conductor 3.5 (d) mm (1/8")/8 Ω	

Measurements made in accordance with TIA-603. All stated specifications are subject to change without notice or obligation.

* 25kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions. Ask your dealer if you need 25kHz bandwidth.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain	506.4	I, II
Humidity	507.4	—
Salt Fog	509.4	—
Dust	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistance)

Supplied accessories:

- Battery pack, BP-232H
- Belt clip, MB-94
- Battery charger, BC-160
- AC adapter, BC-123SA
- Antenna (varies by versions)

OPTIONS



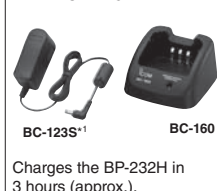
Battery packs	Type	Capacity	Operating time*
BP-230N	Rechargeable Li-ion	950 mAh (min.) 980 mAh (typ.)	9 hours (Approximate)
BP-232H	Rechargeable Li-ion	2200 mAh (min.) 2350 mAh (typ.)	21 hours (Approximate)
BP-240	AAA (LR03) batteries × 6		—

* Tx: Rx: standby=5:5:90. Power save on. (at 20 °C; 68 °F)

REGULAR CHARGER



RAPID CHARGER



MULTI-CHARGER

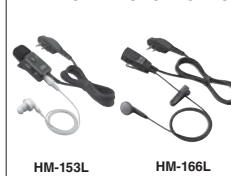


*1 BC-123/BC-147SA for USA plug. SE for Europe plug. SV for Australia plug.

SPEAKER-MICROPHONES



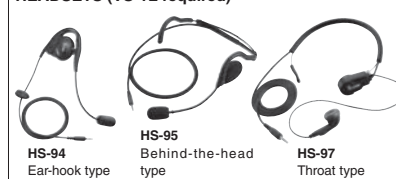
EARPHONE-MICROPHONES



EARPHONES



HEADSETS (VS-1L required)



PTT/VOX UNIT



CHARGER BRACKET



LEATHER BELT HANGERS



BELT CLIPS



STUBBY ANTENNAS

- FA-SC56VS: 150–162 MHz
 - FA-SC57VS: 160–174 MHz
 - FA-SC73US: 450–490 MHz
- 60–80 mm short antennas.

CUT ANTENNAS

- FA-SC61VC: 136–174 MHz
- FA-SC61UC: 380–520 MHz

HIGH GAIN ANTENNAS

- FA-SC62V: 150–160 MHz
- FA-SC63V: 155–165 MHz

ANTENNAS

- FA-SC25V: 136–150 MHz
- FA-SC55V: 150–174 MHz
- FA-SC25U: 400–430 MHz
- FA-SC57U: 430–470 MHz
- FA-SC72U: 470–520 MHz

CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLE



CHARGER ADAPTER

- AD-122
- AD-122 charger adapter is supplied with the BC-197, depending on BC-197's version.

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